

## Index to volume 92

### Author index

#### A

- Abbott DW (see Hartgerink et al). 1987;92:381-9  
Aigase K (see Komori et al). 1987;92:412-21  
Alexander RG (see Felton et al). 1987;92:478-83  
— (see Glenn et al). 1987;92:321-8  
Altuna G (see Woodside et al). 1987;92:181-98  
Amari M (see Deguchi and Amari). 1987;92:511-8 (Case rep.)

#### B

- Barer PG, Wallen TR, McNeill RW, Reitzik M. Stability of mandibular advancement osteotomy using rigid internal fixation. 1987;92:403-11  
Berkshaw ER, Spalding PM, Vig PS. The effect of methodology on the determination of nasal resistance. 1987;92:329-35  
Biggerstaff RH (see Kimura et al). 1987;92:484-91  
Bishara SE, Denchy GE, Goepferd SJ. A conservative postorthodontic treatment of enamel stains. 1987;92:2-7 (Clin. corner)  
Brandt D (see Riolo et al). 1987;92:467-77  
Broadbent JM. Crossroads: acceptance or rejection of functional jaw orthopedics. 1987;92:75-8 (Letter)  
Brown LE. Permanent second molar extraction. 1987;92:78 (Letter)  
Bryan FA (see McNamara and Bryan). 1987;92:98-108  
Bryant S, Retief DH, Russell CM, Denys FR. Tensile bond strengths of orthodontic bonding resins and attachments to etched enamel. 1987;92:225-31  
Burstone CJ (see Nelson et al). 1987;92:213-9  
— (see Tanne et al). 1987;92:499-505

#### C

- Campbell MA, Jacobson A. Class III crowding: the extraction dilemma. 1987;92:365-74 (Case rep.)  
Carels C, van der Linden FPGM. Concepts on functional appliances, mode of action. 1987;92:162-8 (Rev. article)  
Carlson DS, Ellis E III, Dechow PC. Adaptation of the suprahyoid muscle complex to mandibular advancement surgery. 1987;92:134-43  
Cederquist R. Thoughts on the future of orthodontic education and practice. 1987;92:349-53 (Viewpoint)  
Chang HP. Assessment of anteroposterior jaw relationship. 1987;92:117-22  
Christensen LV. Effect of ibuprofen on isometric contractions and associated pain of the human masseter muscle. 1987;92:144-50  
Close JM (see Leite et al). 1987;92:492-8  
Cote EF. Reflections and projections. 1987;92:70-2 (College of Diplomates, ABO)

July, pp. 1-90; August, pp. 91-180; September, pp. 181-274; October, pp. 275-364; November, pp. 365-454; December, pp. 455-542.

#### D

- Dechow PC (see Carlson et al). 1987;92:134-43  
de Chudnovsky AW. Lower first premolar extraction. 1987;92:262-3 (Letter)  
Deguchi T, Amari M. Adhesive fixed partial dentures (bridges) as posttreatment retention in missing tooth cases. 1987;92:511-8 (Case rep.)  
Denchy GE (see Bishara et al). 1987;92:2-7 (Clin. corner)  
Denys KL, Speidel TM. Comparison of three methods of profile change prediction in the adult orthodontic patient. 1987;92:396-402  
— (see Helms et al). 1987;92:232-40  
Denys FR (see Bryant et al). 1987;92:225-31  
Desiderio DM (see Walker et al). 1987;92:9-16  
Dickson FJ. Informed consent. 1987;92:75 (Letter)  
Di Paolo R. Dental school enrollment—Does it conform to supply and demand? 1987;92:260-1 (Guest editorial)  
— An individualized approach to locating the occlusal plane. 1987;92:41-5  
Dyer JK (see Unsterseher et al). 1987;92:220-4

#### E

- Ellis E III (see Carlson et al). 1987;92:134-43

#### F

- Falck F (see Fränkel et al). 1987;92:109-16  
Featherstone JDB (see O'Reilly and Featherstone). 1987;92:33-40  
Felton JM, Sinclair PM, Jones DL, Alexander RG. A computerized analysis of the shape and stability of mandibular arch form. 1987;92:478-83  
Forbes DP (see Miyawaki and Forbes). 1987;92:123-33  
Fränkel C (see Fränkel and Fränkel). 1987;92:435-6 (Point and counterpoint)  
Fränkel R, Fränkel C. A rejoinder. 1987;92:435-6 (Point and counterpoint)  
—, Müller M, Falck F. The uprighting effect of the Fränkel appliance on the mandibular canines and premolars during eruption. 1987;92:109-16

#### G

- Glenn G, Sinclair PM, Alexander RG. Nonextraction orthodontic therapy: posttreatment dental and skeletal stability. 1987;92:321-8  
Goepferd SJ (see Bishara et al). 1987;92:2-7 (Clin. corner)  
Goldberg AJ (see Nelson et al). 1987;92:213-9

- Goldstein MC. The challenge of change: forty years in retrospect. 1987;92:257-8 (Viewpoint)  
 Graber TM (see Vardimon et al). 1987;92:455-66

## H

- Hairfield WM (see Hinton et al). 1987;92:294-8  
 Hamilton RH (see Hamilton et al). 1987;92:427-34 (Point and counterpoint)  
 Hamilton SD, Sinclair PM, Hamilton RH. A cephalometric, tomographic, and dental cast evaluation of Fränkel therapy. 1987;92:427-34 (Point and counterpoint)  
 Hannuksela A, Väänänen A. Predisposing factors for malocclusion in 7-year-old children with special reference to atopic diseases. 1987;92:299-303  
 Harris EF, Vaden JL, Williams RA. Lower incisor space analysis: a contrast of methods. 1987;92:375-80 (Clin. corner)  
 — (see Walker et al). 1987;92:9-16  
 Hartgerink DV, Vig PS, Abbott DW. The effect of rapid maxillary expansion on nasal airway resistance. 1987;92:381-9  
 Helms JA, Speidel M, Denis KL. Effect of timing on long-term clinical success of alveolar cleft bone grafts. 1987;92:232-40  
 Hines FB III (see Miller et al). 1987;92:249-56 (Case rep.)  
 Hinkle FG. Incisor extraction case report. 1987;92:94-7 (Case rep.)  
 —. Ingested retainer: a case report. 1987;92:46-9 (Case rep.)  
 Hinton VA, Warren DW, Hairfield WM, Seaton D. The relationship between nasal cross-sectional area and nasal air volume in normal and nasally impaired adults. 1987;92:294-8  
 Hirota K (see Kawata et al). 1987;92:241-8 (Clin. corner)  
 Hirst D (see Kerr and Hirst). 1987;92:207-12  
 Hoocevar RA. Begg-edgewise diagnosis-determined totally individualized orthodontic technique: introduction to clinical applications. 1987;92:50-69 (Special article)  
 Howe RP. Lower premolar extraction/removable plastic Herbst treatment for mandibular retrognathia. 1987;92:275-85 (Case rep.)  
 Hunter WS (see McWade et al). 1987;92:313-20  
 Hussels W, Nanda RS. Clinical application of a method to correct angle ANB for geometric effects. 1987;92:506-10 (Clin. corner)

## I

- Ishii H, Morita S, Takeuchi Y, Nakamura S. Treatment effect of combined maxillary protraction and chin cap appliance in severe skeletal Class III cases. 1987;92:304-12

## J

- Jacobson A (see Campbell and Jacobson). 1987;92:365-74 (Case rep.)  
 Järvinen S. A study of the factors causing differences in the relative variability of linear radiographic cephalometric measurements. 1987;92:17-23  
 Jones DL (see Felton et al). 1987;92:478-83

## K

- Kawata T, Hirota K, Sumitani K, Umehara K, Yano K, Tzeng HJ, Tabuchi T. A new orthodontic force system of magnetic brackets. 1987;92:241-8 (Clin. corner)  
 Kennedy DB, Turley PK. The clinical management of ectopically erupting first permanent molars. 1987;92:336-45 (Clin. corner)  
 Kenney CW. Re: An ABO case report. 1987;92:263 (Letter)  
 Kerr WJS, Hirst D. Craniofacial characteristics of subjects with normal and postnormal occlusions—a longitudinal study. 1987;92:207-12

- Kimura K, Langland OE, Biggerstaff RH. The evaluation of high-speed screen/film combinations in cephalometric radiography. 1987;92:484-91

- Komori E, Aigase K, Sugisaki M, Tanabe H. Skeletal fixation versus skeletal relapse. 1987;92:412-21

## L

- Langland OE (see Kimura et al). 1987;92:484-91  
 Leite HR, O'Reilly MT, Close JM. Skeletal age assessment using the first, second, and third fingers of the hand. 1987;92:492-8  
 Levens P. Re: Surgical repositioning of impacted mandibular second molar teeth. 1987;92:262 (Letter)

## M

- Mamandras AH (see McWade et al). 1987;92:313-20  
 McGonagle RR. AAO Foundation. 1987;92:1 (American Association of Orthodontists)  
 McLendon WJ (see Miller et al). 1987;92:249-56 (Case rep.)  
 McNamara JA Jr, Bryan FA. Long-term mandibular adaptations to protrusive function: an experimental study in *Macaca mulatta*. 1987;92:98-108  
 McNeill RW (see Barer et al). 1987;92:403-11  
 McWade RA, Mamandras AH, Hunter WS. The effects of Fränkel II treatment on arch width and arch perimeter. 1987;92:313-20  
 Metaxas A (see Woodside et al). 1987;92:181-98  
 Miller WB, McLendon WJ, Hines FB III. Two treatment approaches for missing or peg-shaped maxillary lateral incisors: a case study on identical twins. 1987;92:249-56 (Case rep.)  
 Miyawaki S, Forbes DP. The morphologic and biochemical effects of tensile force application to the interparietal suture of the Sprague-Dawley rat. 1987;92:123-33  
 Moran KI. Relative wire stiffness due to lingual versus labial inter-bracket distance. 1987;92:24-32  
 Morita S (see Ishii et al). 1987;92:304-12  
 Müller M (see Fränkel et al). 1987;92:109-16

## N

- Nakamura S (see Ishii et al). 1987;92:304-12  
 Nanda RS (see Hussels and Nanda). 1987;92:506-10 (Clin. corner)  
 Nelson KR, Burstone CJ, Goldberg AJ. Optimal welding of beta titanium orthodontic wires. 1987;92:213-9  
 Nieberg LG (see Unstereher et al). 1987;92:220-4

## O

- O'Reilly MM, Featherstone JDB. Demineralization and remineralization around orthodontic appliances: an in vivo study. 1987;92:33-40  
 O'Reilly MT (see Leite et al). 1987;92:492-8

## P

- Perich P. Benefits of ADA membership. 1987;92:346-8 (Special article)  
 Phillips C (see Proffit et al). 1987;92:151-61  
 Poulton KT (see Poulton et al). 1987;92:8 (Clin. corner)  
 Poulton TJ, Poulton KT, Stevens CJ. Backhand buttonhook boosts bands. 1987;92:8 (Clin. corner)  
 Proffit WR, Phillips C, Turvey TA. Stability following superior repositioning of the maxilla by LeFort I osteotomy. 1987;92:151-61

## R

- Reitzik M (see Barer et al). 1987;92:403-11  
 Retief DH (see Bryant et al). 1987;92:225-31

- Richmond S. Recording the dental cast in three dimensions. 1987;92:199-206  
 Riolo ML, Brandt D, TenHave TR. Association between occlusal characteristics and signs and symptoms of TMJ dysfunction in children and young adults. 1987;92:467-77  
 Russell CM (see Bryant et al). 1987;92:225-31

# S

- Sakuda M (see Tanne et al). 1987;92:499-505  
 Satravaha S, Schlegel KD. The significance of the integumentary profile. 1987;92:422-6  
 Schlegel KD (see Satravaha and Schlegel). 1987;92:422-6  
 Seaton D (see Hinton et al). 1987;92:294-8  
 Shapiro GG (see Trask et al). 1987;92:286-93  
 Shapiro PA (see Trask et al). 1987;92:286-93  
 Sinclair PM (see Felton et al). 1987;92:478-83  
 — (see Glenn et al). 1987;92:321-8  
 — (see Hamilton et al). 1987;92:427-34 (Point and counterpoint)  
 Slavin AB. Wanted: loyalty among members of the dental profession. 1987;92:262 (Letter)  
 Smith RJ. General practitioners and orthodontics. 1987;92:169-72 (Viewpoint)  
 Spalding PM (see Berkinshaw et al). 1987;92:329-35  
 Speidel M (see Helms et al). 1987;92:232-40  
 Speidel TM (see Denis and Speidel). 1987;92:396-402  
 Stevens CJ (see Poulton et al). 1987;92:8 (Clin. corner)  
 Sugisaki M (see Komori et al). 1987;92:412-21  
 Sumitani K (see Kawata et al). 1987;92:241-8 (Clin. corner)

# T

- Tabuchi T (see Kawata et al). 1987;92:241-8 (Clin. corner)  
 Takeuchi Y (see Ishii et al). 1987;92:304-12  
 Tanabe H (see Komori et al). 1987;92:412-21  
 Tanne K, Sakuda M, Burstone CJ. Three-dimensional finite element analysis for stress in the periodontal tissue by orthodontic forces. 1987;92:499-505  
 Tanzer FS (see Walker et al). 1987;92:9-16  
 TenHave TR (see Riolo et al). 1987;92:467-77  
 Timms DJ. In defense of RME. 1987;92:263-4 (Letter)

- Trask GM, Shapiro GG, Shapiro PA. The effects of perennial allergic rhinitis on dental and skeletal development: a comparison of sibling pairs. 1987;92:286-93  
 Turley PK (see Kennedy and Turley). 1987;92:336-45 (Clin. corner)  
 Turvey TA (see Proffit et al). 1987;92:151-61  
 Tzeng HJ (see Kawata et al). 1987;92:241-8 (Clin. corner)

# U

- Umehara K (see Kawata et al). 1987;92:241-8 (Clin. corner)  
 Unsterseher RE, Nieberg LG, Weimer AD, Dyer JK. The response of human pulpal tissue after orthodontic force application. 1987;92:220-4

# V

- Väänänen A (see Hannuksela and Väänänen). 1987;92:299-303  
 Vaden JL (see Harris et al). 1987;92:375-80 (Clin. corner)  
 van der Linden FPGM (see Carels and van der Linden). 1987;92:162-8 (Rev. article)  
 Vardimon AD, Graber TM, Voss LR, Verrusio E. Magnetic versus mechanical expansion with different force thresholds and points of force application. 1987;92:455-66  
 Verrusio E (see Vardimon et al). 1987;92:455-66  
 Vig PS (see Berkinshaw et al). 1987;92:329-35  
 — (see Hartgerink et al). 1987;92:381-9  
 Voss LR (see Vardimon et al). 1987;92:455-66

# W

- Wakelyn C (see Walker et al). 1987;92:9-16  
 Walker JA Jr, Tanzer FS, Harris EF, Wakelyn C, Desiderio DM. The enkephalin response in human tooth pulp to orthodontic force. 1987;92:9-16  
 Wallen TR (see Barer et al). 1987;92:403-11  
 Warren DW (see Hinton et al). 1987;92:294-8  
 Weimer AD (see Unsterseher et al). 1987;92:220-4  
 White RA. Only as colleagues. 1987;92:91-2 (Guest editorial)  
 Williams RA (see Harris et al). 1987;92:375-80 (Clin. corner)  
 Woodside DG, Metaxas A, Altuna G. The influence of functional appliance therapy on glenoid fossa remodeling. 1987;92:181-98

# Y

- Yano K (see Kawata et al). 1987;92:241-8 (Clin. corner)

# Subject index

## A

### Abstracts

Abstracts. 1987;92:79-86; 175-7; 268-70; 355-61; 446-51; 525-6

### Adhesive

Adhesive fixed partial dentures (bridges) as posttreatment retention in missing tooth cases (Deguchi and Amari). 1987;92:511-8 (Case rep.)

### Adult patient

Association between occlusal characteristics and signs and symptoms of TMJ dysfunction in children and young adults (Riolo et al). 1987;92:467-77

Comparison of three methods of profile change prediction in the adult orthodontic patient (Denis and Speidel). 1987;92:396-402

### Airway resistance

The effect of rapid maxillary expansion on nasal airway resistance (Hartgerink et al). 1987;92:381-9

### Allergy

The effects of perennial allergic rhinitis on dental and skeletal development: a comparison of sibling pairs (Trask et al). 1987;92:286-93

Predisposing factors for malocclusion in 7-year-old children with special reference to atopic diseases (Hannuksela and Väänänen). 1987;92:299-303

### Alveolar cleft

Effect of timing on long-term clinical success of alveolar cleft bone grafts (Helms et al). 1987;92:232-40

### American Association of Orthodontists

AAO Foundation (McGonagle). 1987;92:1 (American Association of Orthodontists)

### American Board of Orthodontics

ABO announces expanded time requirements for certification effective January 1, 1988. 1987;92:259 (ABO)

American Board of Orthodontics conducts annual Phase III Examination. 1987;92:73 (ABO)

Reflections and projections (Cote). 1987;92:70-2 (College of Diplomates, ABO)

Rocco J. Di Paolo named new Director of the American Board of Orthodontics. 1987;92:519 (ABO)

### American Dental Association

Benefits of ADA membership (Perich). 1987;92:346-8 (Special article)

### Angle ANB

Clinical application of a method to correct angle ANB for geometric effects (Hussels and Nanda). 1987;92:506-10 (Clin. corner)

### Anteroposterior jaw relationship

Assessment of anteroposterior jaw relationship (Chang). 1987;92:117-22

### Appliance; see also Fränkel appliance

Concepts on functional appliances' mode of action (Carels and van der Linden). 1987;92:162-8 (Rev. article)

July, pp. 1-90; August, pp. 91-180; September, pp. 181-274; October, pp. 275-364; November, pp. 365-454; December, pp. 455-542.

The influence of functional appliance therapy on glenoid fossa remodeling (Woodside et al). 1987;92:181-98

### Arch

A computerized analysis of the shape and stability of mandibular arch form (Felton et al). 1987;92:478-83

The effects of Fränkel II treatment on arch width and arch perimeter (McWade et al). 1987;92:313-20

### Atopic disease; see also Allergy

Predisposing factors for malocclusion in 7-year-old children with special reference to atopic diseases (Hannuksela and Väänänen). 1987;92:299-303

## B

### Band

Backhand buttonhook boosts bands (Poulton et al). 1987;92:8 (Clin. corner)

### Begg technique

Begg-edgewise diagnosis-determined totally individualized orthodontic technique: introduction to clinical applications (Hocevar). 1987;92:50-69 (Special article)

### Biochemical effect

The morphologic and biochemical effects of tensile force application to the interparietal suture of the Sprague-Dawley rat (Miyawaki and Forbes). 1987;92:123-33

### Bond

Tensile bond strengths of orthodontic bonding resins and attachments to etched enamel (Bryant et al). 1987;92:225-31

### Bone grafts

Effect of timing on long-term clinical success of alveolar cleft bone grafts (Helms et al). 1987;92:232-40

### Bracket

Relative wire stiffness due to lingual versus labial interbracket distance (Moran). 1987;92:24-32

### Buttonhook

Backhand buttonhook boosts bands (Poulton et al). 1987;92:8 (Clin. corner)

## C

### Canine

The uprighting effect of the Fränkel appliance on the mandibular canines and premolars during eruption (Fränkel et al). 1987;92:109-16

### Case reports

Case report. 1987;92:46-9; 94-7; 249-56; 275-85; 365-74; 511-8

### Cast; see Dental cast

### Cephalometrics

A cephalometric, tomographic, and dental cast evaluation of Fränkel therapy (Hamilton et al) (Point). 1987;92:427-34; (Fränkel and Fränkel) (Counterpoint). 1987;92:435-6

The evaluation of high-speed screen/film combinations in cephalometric radiography (Kimura et al). 1987;92:484-91

- A study of the factors causing differences in the relative variability of linear radiographic cephalometric measurements (Järvinen). 1987;92:17-23

#### Chincap

- Treatment effect of combined maxillary protraction and chincap appliance in severe skeletal Class III cases (Ishii et al). 1987;92:304-12

#### Class III cases

- Class III crowding: the extraction dilemma (Campbell and Jacobson). 1987;92:365-74 (Case rep.)  
Treatment effect of combined maxillary protraction and chincap appliance in severe skeletal Class III cases (Ishii et al). 1987;92:304-12

#### Clinicians' corner

- Clinicians' corner. 1987;92:2-8; 241-8; 336-45; 375-80; 506-10

#### College of Diplomates

- Reflections and projections (Cote). 1987;92:70-2 (College of Diplomates, ABO)

#### Computerized analysis

- A computerized analysis of the shape and stability of mandibular arch form (Felton et al). 1987;92:478-83

#### Contractions

- Effect of ibuprofen on isometric contractions and associated pain of the human masseter muscle (Christensen). 1987;92:144-50

#### Craniofacial characteristics

- Craniofacial characteristics of subjects with normal and postnormal occlusions—a longitudinal study (Kerr and Hirst). 1987;92:207-12

#### Crowding

- Class III crowding: the extraction dilemma (Campbell and Jacobson). 1987;92:365-74 (Case rep.)

### D

#### Demineralization

- Demineralization and remineralization around orthodontic appliances: an in vivo study (O'Reilly and Featherstone). 1987;92:33-40

#### Dental cast

- A cephalometric, tomographic, and dental cast evaluation of Fränkel therapy (Hamilton et al) (Point). 1987;92:427-34; (Fränkel and Fränkel) (Counterpoint). 1987;92:435-6  
Recording the dental cast in three dimensions (Richmond). 1987;92:199-206

#### Dental school enrollment

- Dental school enrollment—Does it conform to supply and demand? (Di Paolo) 1987;92:260-1 (Guest editorial)

#### Dentures

- Adhesive fixed partial dentures (bridges) as posttreatment retention in missing tooth cases (Deguchi and Amari). 1987;92:511-8 (Case rep.)

### E

#### Ectopic eruption

- The clinical management of ectopically erupting first permanent molars (Kennedy and Turley). 1987;92:336-45 (Clin. corner)

#### Editorials; see Guest editorials

#### Education

- Dental school enrollment—Does it conform to supply and demand? (Di Paolo) 1987;92:260-1 (Guest editorial)  
Thoughts on the future of orthodontic education and practice (Ced-erquist). 1987;92:349-53 (Viewpoint)

#### Enamel

- A conservative postorthodontic treatment of enamel stains (Bishara et al). 1987;92:2-7 (Clin. corner)

- Tensile bond strengths of orthodontic bonding resins and attachments to etched enamel (Bryant et al). 1987;92:225-31

#### Enkephalin

- The enkephalin response in human tooth pulp to orthodontic force (Walker et al). 1987;92:9-16

#### Eruption

- The clinical management of ectopically erupting first permanent molars (Kennedy and Turley). 1987;92:336-45 (Clin. corner)

- The uprighting effect of the Fränkel appliance on the mandibular canines and premolars during eruption (Fränkel et al). 1987;92:109-16

#### Etched enamel

- Tensile bond strengths of orthodontic bonding resins and attachments to etched enamel (Bryant et al). 1987;92:225-31

#### Expansion

- Magnetic versus mechanical expansion with different force thresholds and points of force application (Vardimon et al). 1987;92:455-66

#### Extraction

- Class III crowding: the extraction dilemma (Campbell and Jacobson). 1987;92:365-74 (Case rep.)  
Incisor extraction case report (Hinkle). 1987;92:94-7 (Case rep.)  
Lower premolar extraction/removable plastic Herbst treatment for mandibular retrognathia (Howe). 1987;92:275-85 (Case rep.)

### F

#### Finite element analysis

- Three-dimensional finite element analysis for stress in the periodontal tissue by orthodontic forces (Tanne et al). 1987;92:499-505

#### First permanent molars

- The clinical management of ectopically erupting first permanent molars (Kennedy and Turley). 1987;92:336-45 (Clin. corner)

#### Fixation

- Skeletal fixation versus skeletal relapse (Komori et al). 1987;92:412-21  
Stability of mandibular advancement osteotomy using rigid internal fixation (Barer et al). 1987;92:403-11

#### Fixed partial dentures

- Adhesive fixed partial dentures (bridges) as posttreatment retention in missing tooth cases (Deguchi and Amari). 1987;92:511-8 (Case rep.)

#### Force

- The enkephalin response in human tooth pulp to orthodontic force (Walker et al). 1987;92:9-16

- Magnetic versus mechanical expansion with different force thresholds and points of force application (Vardimon et al). 1987;92:455-66

- The morphologic and biochemical effects of tensile force application to the interparietal suture of the Sprague-Dawley rat (Miyawaki and Forbes). 1987;92:123-33

- The response of human pulpal tissue after orthodontic force application (Unstetter et al). 1987;92:220-4

- Three-dimensional finite element analysis for stress in the periodontal tissue by orthodontic forces (Tanne et al). 1987;92:499-505



**Fränkel II therapy**

The effects of Fränkel II treatment on arch width and arch perimeter (McWade et al). 1987;92:313-20

A cephalometric, tomographic, and dental cast evaluation of Fränkel therapy (Hamilton et al) (Point). 1987;92:427-34; (Fränkel and Fränkel) (Counterpoint). 1987;92:435-6

The uprighting effect of the Fränkel appliance on the mandibular canines and premolars during eruption (Fränkel et al). 1987;92:109-16

**Functional appliances**

Concepts on functional appliances' mode of action (Carels and van der Linden). 1987;92:162-8 (Rev. article)

The influence of functional appliance therapy on glenoid fossa remodeling (Woodside et al). 1987;92:181-98

## G

**Glenoid fossa**

The influence of functional appliance therapy on glenoid fossa remodeling (Woodside et al). 1987;92:181-98

**Grafts**

Effect of timing on long-term clinical success of alveolar cleft bone grafts (Helms et al). 1987;92:232-40

**Guest editorials**

Guest editorials. 1987;92:91-3; 260-1

## H

**Herbst treatment**

Lower premolar extraction/removable plastic Herbst treatment for mandibular retrognathia (Howe). 1987;92:275-85 (Case rep.)

## I

**Ibuprofen**

Effect of ibuprofen on isometric contractions and associated pain of the human masseter muscle (Christensen). 1987;92:144-50

**In memoriam**

Robert J. Gawley. 1987;92:520

Walter J. Hills. 1987;92:265

**Incisor**

Incisor extraction case report (Hinkle). 1987;92:94-7 (Case rep.)

Lower incisor space analysis: a contrast of methods (Harris et al). 1987;92:375-80 (Clin. corner)

Two treatment approaches for missing or peg-shaped maxillary lateral incisors: a case study on identical twins (Miller et al). 1987;92:249-56 (Case rep.)

**Individualized orthodontic technique**

Begg-edgewise diagnosis-determined totally individualized orthodontic technique: introduction to clinical applications (Hoevar). 1987;92:50-69 (Special article)

**Integumentary profile**

The significance of the integumentary profile (Satravaha and Schlegel). 1987;92:422-6

**Interbracket distance**

Relative wire stiffness due to lingual versus labial interbracket distance (Moran). 1987;92:24-32

**Interparietal suture**

The morphologic and biochemical effects of tensile force application to the interparietal suture of the Sprague-Dawley rat (Miyawaki and Forbes). 1987;92:123-33

**Isometric contractions**

Effect of ibuprofen on isometric contractions and associated pain of the human masseter muscle (Christensen). 1987;92:144-50

## J

**Jaw**

Assessment of anteroposterior jaw relationship (Chang). 1987;92:117-22

## L

**LeFort I osteotomy**

Stability following superior repositioning of the maxilla by LeFort I osteotomy (Proffit et al). 1987;92:151-61

**Letters to the editor**

Crossroads: acceptance or rejection of functional jaw orthopedics (Broadbent). 1987;92:75-8

In defense of RME (Timms). 1987;92:263-4

Informed consent (Dickson). 1987;92:75

Lower first premolar extraction (de Chudnovsky). 1987;92:262-3

Permanent second molar extraction (Brown). 1987;92:78

Re: An ABO case report (Kenney). 1987;92:263

Re: Surgical repositioning of impacted mandibular second molar teeth (Levens). 1987;92:262

Wanted: Loyalty among members of the dental profession (Slavin). 1987;92:262

**Linear radiographic cephalometric measurements**

A study of the factors causing differences in the relative variability of linear radiographic cephalometric measurements (Järvinen). 1987;92:17-23

**Lower incisor**

Lower incisor space analysis: a contrast of methods (Harris et al). 1987;92:375-80 (Clin. corner)

## M

**Magnetic expansion**

Magnetic versus mechanical expansion with different force thresholds and points of force application (Vardimon et al). 1987;92:455-66

**Malocclusion**

Predisposing factors for malocclusion in 7-year-old children with special reference to atopic diseases (Hannuksela and Väänänen). 1987;92:299-303

**Mandible**

Adaptation of the suprahyoid muscle complex to mandibular advancement surgery (Carlson et al). 1987;92:134-43

A computerized analysis of the shape and stability of mandibular arch form (Felton et al). 1987;92:478-83

Long-term mandibular adaptations to protrusive function: an experimental study in *Macaca mulatta* (McNamara and Bryan). 1987;92:98-108

Lower premolar extraction/removable plastic Herbst treatment for mandibular retrognathia (Howe). 1987;92:275-85 (Case rep.)

Stability of mandibular advancement osteotomy using rigid internal fixation (Barer et al). 1987;92:403-11

**Mandibular canine**

The uprighting effect of the Fränkel appliance on the mandibular canines and premolars during eruption (Fränkel et al). 1987;92:109-16

**Masseter muscle**

Effect of ibuprofen on isometric contractions and associated pain of the human masseter muscle (Christensen). 1987;92:144-50

## Maxilla

- The effect of rapid maxillary expansion on nasal airway resistance (Harterink et al). 1987;92:381-9  
Stability following superior repositioning of the maxilla by LeFort I osteotomy (Proffit et al). 1987;92:151-61  
Treatment effect of combined maxillary protraction and chin cap appliance in severe skeletal Class III cases (Ishii et al). 1987;92:304-12

## Maxillary lateral incisors

- Two treatment approaches for missing or peg-shaped maxillary lateral incisors: a case study on identical twins (Miller et al). 1987;92:249-56 (Case rep.)

## Mechanical expansion

- Magnetic versus mechanical expansion with different force thresholds and points of force application (Vardimon et al). 1987;92:455-66

## Mineralization

- Deminerization and remineralization around orthodontic appliances: an in vivo study (O'Reilly and Featherstone). 1987;92:33-40

## Missing tooth

- Adhesive fixed partial dentures (bridges) as posttreatment retention in missing tooth cases (Deguchi and Amari). 1987;92:511-8 (Case rep.)

## Molars

- The clinical management of ectopically erupting first permanent molars (Kennedy and Turley). 1987;92:336-45 (Clin. corner)

## Morphology

- The morphologic and biochemical effects of tensile force application to the interparietal suture of the Sprague-Dawley rat (Miyawaki and Forbes). 1987;92:123-33

## Muscle

- Adaptation of the suprahyoid muscle complex to mandibular advancement surgery (Carlson et al). 1987;92:134-43  
Effect of ibuprofen on isometric contractions and associated pain of the human masseter muscle (Christensen). 1987;92:144-50

## N

## Nasal air volume

- The relationship between nasal cross-sectional area and nasal air volume in normal and nasally impaired adults (Hinton et al). 1987;92:294-8

## Nasal airway resistance

- The effect of methodology on the determination of nasal resistance (Berkinshaw et al). 1987;92:329-35  
The effect of rapid maxillary expansion on nasal airway resistance (Harterink et al). 1987;92:381-9

## Nonextraction orthodontic therapy

- Nonextraction orthodontic therapy: posttreatment dental and skeletal stability (Glenn et al). 1987;92:321-8

## Nose; see Nasal air volume; Nasal airway resistance

## O

## Occlusion

- Association between occlusal characteristics and signs and symptoms of TMJ dysfunction in children and young adults (Riolo et al). 1987;92:467-77  
Craniofacial characteristics of subjects with normal and postnormal occlusions—a longitudinal study (Kerr and Hirst). 1987;92:207-12  
An individualized approach to locating the occlusal plane (Di Paolo). 1987;92:41-5

## Osteotomy

- Stability following superior repositioning of the maxilla by LeFort I osteotomy (Proffit et al). 1987;92:151-61  
Stability of mandibular advancement osteotomy using rigid internal fixation (Barer et al). 1987;92:403-11

## P

## Pain

- Effect of ibuprofen on isometric contractions and associated pain of the human masseter muscle (Christensen). 1987;92:144-50

## Peg-shaped tooth

- Two treatment approaches for missing or peg-shaped maxillary lateral incisors: a case study on identical twins (Miller et al). 1987;92:249-56 (Case rep.)

## Periodontal tissue

- Three-dimensional finite element analysis for stress in the periodontal tissue by orthodontic forces (Tanne et al). 1987;92:499-505

## Permanent molars

- The clinical management of ectopically erupting first permanent molars (Kennedy and Turley). 1987;92:336-45 (Clin. corner)

## Point and counterpoint

- Point and counterpoint. 1987;92:427-36

## Postorthodontic treatment

- A conservative postorthodontic treatment of enamel stains (Bishara et al). 1987;92:2-7 (Clin. corner)

## Practice

- Benefits of ADA membership (Perich). 1987;92:346-8 (Special article)  
Thoughts on the future of orthodontic education and practice (Cedrequist). 1987;92:349-53 (Viewpoint)

## Premolar

- Lower premolar extraction/removable plastic Herbst treatment for mandibular retrognathia (Howe). 1987;92:275-85 (Case rep.)  
The uprighting effect of the Fränkel appliance on the mandibular canines and premolars during eruption (Fränkel et al). 1987;92:109-16

## Profile

- Comparison of three methods of profile change prediction in the adult orthodontic patient (Denis and Speidel). 1987;92:396-402  
The significance of the integumentary profile (Satravaha and Schlegel). 1987;92:422-6

## Protrusive function

- Long-term mandibular adaptations to protrusive function: an experimental study in *Macaca mulatta* (McNamara and Bryan). 1987;92:98-108

## Pulp

- The enkephalin response in human tooth pulp to orthodontic force (Walker et al). 1987;92:9-16  
The response of human pulpal tissue after orthodontic force application (Unsterseher et al). 1987;92:220-4

## R

## Radiography

- The evaluation of high-speed screen/film combinations in cephalometric radiography (Kimura et al). 1987;92:484-91  
A study of the factors causing differences in the relative variability of linear radiographic cephalometric measurements (Järvinen). 1987;92:17-23

## Relapse

- Skeletal fixation versus skeletal relapse (Komori et al). 1987;92:412-21

**Remineralization**

Demineralization and remineralization around orthodontic appliances: an in vivo study (O'Reilly and Featherstone). 1987;92:33-40

**Repositioning**

Stability following superior repositioning of the maxilla by LeFort I osteotomy (Proffit et al). 1987;92:151-61

**Resins**

Tensile bond strengths of orthodontic bonding resins and attachments to etched enamel (Bryant et al). 1987;92:225-31

**Resistance**

The effect of rapid maxillary expansion on nasal airway resistance (Hartgerink et al). 1987;92:381-9

**Retainer**

Ingested retainer: a case report (Hinkle). 1987;92:46-9 (Case rep.)

**Retrognathia**

Lower premolar extraction/removable plastic Herbst treatment for mandibular retrognathia (Howe). 1987;92:275-85 (Case rep.)

**Review article**

Review article. 1987;92:162-8

**Reviews**

Reviews. 1987;92:173-5; 266-7; 354-5; 445-6; 521-6

**Rhinitis**

The effects of perennial allergic rhinitis on dental and skeletal development: a comparison of sibling pairs (Trask et al). 1987;92:286-93

**S****Screen/film combinations**

The evaluation of high-speed screen/film combinations in cephalometric radiography (Kimura et al). 1987;92:484-91

**Sibling studies**

The effects of perennial allergic rhinitis on dental and skeletal development: a comparison of sibling pairs (Trask et al). 1987;92:286-93

Two treatment approaches for missing or peg-shaped maxillary lateral incisors: a case study on identical twins (Miller et al). 1987;92:249-56 (Case rep.)

**Skeletal development**

The effects of perennial allergic rhinitis on dental and skeletal development: a comparison of sibling pairs (Trask et al). 1987;92:286-93

Skeletal age assessment using the first, second, and third fingers of the hand (Leite et al). 1987;92:492-8

Skeletal fixation versus skeletal relapse (Komori et al). 1987;92:412-21

**Space analysis**

Lower incisor space analysis: a contrast of methods (Harris et al). 1987;92:375-80 (Clin. corner)

**Special articles**

Special articles. 1987;92:50-69; 346-8

**Stains**

A conservative postorthodontic treatment of enamel stains (Bishara et al). 1987;92:2-7 (Clin. corner)

**Stress**

Three-dimensional finite element analysis for stress in the periodontal tissue by orthodontic forces (Tanne et al). 1987;92:499-505

**Suprahyoid muscle**

Adaptation of the suprahyoid muscle complex to mandibular advancement surgery (Carlson et al). 1987;92:134-43

**Surgery**

Adaptation of the suprahyoid muscle complex to mandibular advancement surgery (Carlson et al). 1987;92:134-43

**Suture**

The morphologic and biochemical effects of tensile force application to the interparietal suture of the Sprague-Dawley rat (Miyawaki and Forbes). 1987;92:123-33

**T****Temporomandibular dysfunction**

Association between occlusal characteristics and signs and symptoms of TMJ dysfunction in children and young adults (Riolo et al). 1987;92:467-77

**Tensile strengths**

The morphologic and biochemical effects of tensile force application to the interparietal suture of the Sprague-Dawley rat (Miyawaki and Forbes). 1987;92:123-33

Tensile bond strengths of orthodontic bonding resins and attachments to etched enamel (Bryant et al). 1987;92:225-31

**Three-dimensional relationships**

Recording the dental cast in three dimensions (Richmond). 1987;92:199-206

**Titanium**

Optimal welding of beta titanium orthodontic wires (Nelson et al). 1987;92:213-9

**Tomography**

A cephalometric, tomographic, and dental cast evaluation of Fränkel therapy (Hamilton et al) (Point). 1987;92:427-34; (Fränkel and Fränkel) (Counterpoint). 1987;92:435-6

**Twins**

Two treatment approaches for missing or peg-shaped maxillary lateral incisors: a case study on identical twins (Miller et al). 1987;92:249-56 (Case rep.)

**U****Uprighting effect**

The uprighting effect of the Fränkel appliance on the mandibular canines and premolars during eruption (Fränkel et al). 1987;92:109-16

**V****Viewpoint**

Viewpoint. 1987;92:169-72; 257-8; 349-53; 437-44

**W****Welding**

Optimal welding of beta titanium orthodontic wires (Nelson et al). 1987;92:213-9

**Wires**

Optimal welding of beta titanium orthodontic wires (Nelson et al). 1987;92:213-9

Relative wire stiffness due to lingual versus labial interbracket distance (Moran). 1987;92:24-32



